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                                                                   TTTTTTTTTTTTT
                    TITITITITITI
                                                                                   LLL
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                                 888
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LLL
                       111
                                 BBB
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                                                  RRR
                                                           RRR
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                                                                                    LLL
                                 LLLLLLLLLLLLLLL
                    1111111111
                                                  RRR
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LLLLLLLLLLLLLL
                    RRR
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                                                                         TTT
                                                                                   LLLLLLLLLLLLLL
RRR
                                                              RRR
                    111111111
                                                                         III
                                                                                   LLLLLLLLLLLLLLL
```

Sy

LL	88888888 88888888 88 88 88 88 88 88 88 88 888888	LL	XX	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
LL LL LL LL LL LL LL LL LL LL LL LLLLLL	\$				

Page

(1)

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O MODULE LIB\$\$LEXICAL (%TITLE 'Internal routines for lexical functions' IDENT = '1-009' ! File: LIBLEXICA.B32 Edit: ST ! File: LIBLEXICA.B32 Edit: STAN1009) = 1 BEGIN

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0031 1 ! FACILITY: General Utility Library, DCL

ABSTRACT:

This module contains routines which form the common kernel of the following Run-Time Library procedures and DCL lexical functions: LIB\$GETDVI F\$GETDVI

LIB\$GETJPI F\$GETJPI LIB\$GETSYI F\$GETSYI

ENVIRONMENT: User or supervisor mode - AST reentrant

AUTHOR: Steven B. Lionel, CREATION DATE: 13-July-1982

MODIFIED BY:

1-001 - Original. Adapted from the DCL module LEXICON. SBL 13-July-1982 1-002 - Use tables in LIBGETTAB.MAR. SBL 8-Mar-1983

1-003 - Change string length from LNM\$C_NAMLENGTH to 512. SBL 11-Mar-1983 1-004 - Add HEXSTR format. SBL 20-May-1983

1-005 - HEXSTR is now HEXSTRING. SBL 24-May-1983
1-006 - Add privileges TMPJNL, PRMJNL and SECURITY. SBL 28-July-1983
1-007 - Add new format MODE for JPIS_MODE. Fix format HEXSTRING so that

the significant characters get returned. SBL 9-Sep-1983

1-008 - Add support for two new arguments to SYS\$GETSYI - NODENAME and CSIDADR. DG 19-Oct-1983.

0054 0055 0056

0044

0045 0046

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0050

1 !

1!

0051 1 !

0052 1 !

0057 1 !

.

|

```
LIBSSLEXICAL
                                                                                                               16-Sep-1984 01:04:32
14-Sep-1984 12:39:06
                           Internal routines for lexical functions
                                                                                                                                                        VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.832;1
                                                                                                                                                                                                                       Page
                            Declarations
                                    1 %SBTTL 'Declarations'
      66666668901234567890
                            0062
0063
00645
00667
00138
0140
0142
0143
0144
                                             PROLOGUE FILE:
                                        LIBRARY 'RTLLIB';
REQUIRE 'RTLIN:LIBPROLOG';
                                                                                                                            ! SYS$LIBRARY:LIB.L32
                                                                                                                           ! LIB$ definitions
                                         ! LINKAGES:
                                      1 LINKAGE
                                                CALL_LEXICAL = CALL;
                            0146
                                     1 | TABLE OF CONTENTS:
                           0148
0149
0150
                                        FORWARD ROUTINE
LIB$$GETDVI: CALL_LEXICAL,
LIB$$GETJPI: CALL_LEXICAL,
LIB$$GETSYI: CALL_LEXICAL,
LIB$$FORMAT_RESULT: NOVALUE;
      81
82
83
                           0151
0152
C153
0154
0155
0157
0158
0159
0160
                                                                                                                            Get Device Information
Get Job/Process Information
Get System Imformation
      84
85
86
87
                                                                                                                            ! Format result
     MACROS:
                                                       NONE
                           0161
                                            EQUATED SYMBOLS:
                           0162
0163
                                                       NONE
                           0164
                                            FIELDS:
                           0166
0167
                                                       NONE
                           0168
                           0169
                                            OWN STORAGE:
                           0170
                           0171
                                                       NONE
                           0172
0173
0174
0175
0176
                                            EXTERNAL REFERENCES:
                                        EXTERNAL ROUTINE OTS$CVT_L_TZ;
     108
                                                                                                 ! Convert to hex format
                           0178
0179
     109
     110
                                        EXTERNAL
                                                LIB$$AB_GETDVI_TABLE,
LIB$$AB_GETJPI_TABLE,
LIB$$AB_GETSYI_TABLE;
                                                                                                 ! Table of $GETDVI codes and types ! Table of $GETJPI codes and types ! Table of $GETSYI codes and types
     111
                            0180
     112
                            0181
                            0182
```

```
LIB$$LEXICAL
                 Internal routines for lexical functions
                                                                     16-Sep-1984 01:04:32
                                                                                              VAX-11 Bliss-32 V4.0-742
1-009
                 LIB$$GETDVI - Internal routine for LIB$GETDVI
                                                                    14-Sep-1984 12:39:06
                                                                                              [LIBRTL.SRC]LIBLEXICA.B32:1
                         0183
0184
0185
  115
  116
  117
                                                                      $GETSYI Item code
                0186
  118
                                                                       Return string buffer
  119
                 0187
                                                                       Return numeric buffer
  120
1223
1223
1267
1289
1333
1336
1337
                 0188
                                                                       Returned length
                 0189
                              RET TYPE: REF VECTOR [, LONG].
                                                                       Returned type code
                0190
                              EVENT_FLAG
                                                                      Event flag to use
                             CHANNEL: WORD
                0191
                                                                       Channel number
                0192
0193
                             DEVNAM_DESCR: REF BLOCK [, BYTE]
                                                                      Device name descriptor
                              ): CALE_LEXICAL =
                0194
                0195
                0196
                         ! FUNCTIONAL DESCRIPTION:
                0198
                                  Kernel routine called from LIB$GETDVI and DCL to get device and
                0199
                                  volume information. See LIB$G2TDVI for more information.
                 0200
                0201
                           CALLING SEQUENCE:
                0202
0203
                                  ret-status.wlc.v = LIB$$GETDVI (
                 0204
                                                            item-code.rw.v.
                0205
                                                            ret-string.wt.r,
  138
139
                0206
                                                            ret-number.wq.r,
                0207
                                                            ret-length.www.r.
  140
                0208
                                                            ret-type.wl.r,
                0209
  141
                                                            event-flag.rl.v,
  142
                0210
                                                            channel.rwu.v.
                0211
                                                            devnam-descr.rt.ds)
                0212
  144
  145
                           FORMAL PARAMETERS:
  146
                0214
  147
                0215
                                                            The $GETDVI item code
                                  item-code
  148
                0216
  149
                0217
                                  ret-string
                                                            A string of length 512 into which
  150
                0218
                                                            is placed the string-formatted value.
  151
                0219
  152
153
154
                0220
                                                            A quadword into which is placed the numeric
                                  ret-number
                0221
0222
0223
                                                            value, if any.
  155
                                                            A word into which is placed the length of
                                  ret-length
  156
                                                            the string in ret-string.
  157
  158
                                                            A longword into which is placed the type
                                  ret-type
  159
                                                            code for the value being returned. The
                0228
0229
0230
                                                            codes are LIB$K_FMT_xxx values defined
  160
  161
                                                            in LIBFMTDEF.SDC.
  162
                0231
0232
0233
0234
0235
  163
                                  event-flag
                                                            A longword event flag number to use for
  164
                                                            the $GETDVI.
  165
  166
                                  channel
                                                            A word containing the channel to inquire
   167
                                                            about.
                0236
0237
  168
  169
                                  devnam-descr
                                                            A string descriptor for the device name
   170
                 0238
                                                            being inquired about.
  171
                 0239
```

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LIB\$\$LEXICAL	Internal routines LIB\$\$GETDVI - Inte	for lexical functions rnal routine for LIB\$GETDVI	16-Sep-1984 01:04:32 14-Sep-1984 12:39:06	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1	Page 5 (3)
172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188	0245 1	NE OUTPUTS: NE ON STATUS: S_NORMAL Normal succes S_xxx Any error sta	sful completion tus from \$GETDVIW		

1<u>1</u>

LIB\$\$LEXICAL	Internal r LIB\$\$GETDV	outines for lexical functions /I - Internal routine for LIB\$GETDVI	M 3 16-sep-1984 01:04:32 14-sep-1984 12:39:06	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.832:1	Page 6
191 192 193 194 195 196 197 198 199 200 201 202 203	258 02560 02661 02663 02663 02664 02667 02668 02689 0271	BEGIN Declare fieldset that defines the property of the prope			

```
N 3
LIB$$LEXICAL
1-009
                       Internal routines for lexical functions 16-Sep-1984 01:04:32 LIB$$GETDVI - Internal routine for LIB$GETDVI 14-Sep-1984 12:39:06
                                                                                                                                 VAX-11 Bliss-32 V4.0-742
                                                                                                                                 [LIBRTL.SRC]LIBLEXICA.B32:1
     206
207
208
                       LOCAL
                                               TABLE_ENTRY: REF BLOCK [, BYTE] FIELD (GETDVI_ITEM_FIELDSET),
                                               ! Current table entry
DUMMY ENTRY: BLOCK [3, BYTE] FIELD (GETDVI ITEM FIELDSET),
ITEM_CIST: BLOCK [16, BYTE], ! Item List for $GETDVI
    ITEM_CIST: BLOCK [16, BYTE], IOSB: VECTOR [4, WORD],
                                                                                                 Status block
                                               RET_STATUS;
                                                                                                 Return status
! Look up ITEM_CODE in LIB$$AB GETDVI TABLE.
                                         TABLE_ENTRY = L!B$$AB_GETDVI_TABLE;
                                                                                                          ! Get first element.
                                         WHILE .TABLE_ENTRY [W_ITEM] NEQ .ITEM_CODE
                                               BEGIN
                                               TABLE_ENTRY = TABLE_ENTRY [A_NEXT];
IF .TABLE_ENTRY [W_ITEM] EQL 0
                                                                                                            Get next item
                                                                                                          ! No more items?
                       0291
0292
0293
                                                     BEGIN
                                                     TABLE_ENTRY = DUMMY_ENTRY; ! Uso
DUMMY_ENTRY [B_TYPE] = LIB$K_FMT_BINARY;
                                                                                                          ! Use dummy table entry
                        0294
                        0295
                                                     EXITLOOP:
                       0296
0297
                                                     END:
                                               END:
                        0298
                        0299
                       0300
                                         ! Store type code.
                        0301
                       0302
0303
                                         RET_TYPE [0] = .TABLE_ENTRY [B_TYPE];
                       0304
                       0305
                       0306
                                         ! Fill in ITEM_LIST and do the $GETDVI.
     241
242
243
                       0307
                       0308
                       0309
                                         ITEM_LIST [0,16,16,0] = .ITEM_CODE;     ! Item code
IF .TABLE_ENTRY [B_TYPE] LEQ [IB$K_FMT_MAXSTRING    ! Is it a string?
     244
                       0310
                       0311
                                         THEN
    246
247
248
                       0312
0313
                                               BEGIN
                                               ITEM_LIST [4,0,32,0] = RET_STRING [0];
ITEM_LIST [0,0,16,0] = 512;
                                                                                                         ! Return buffer
                       0314
0315
                                                                                                            Buffer size
                                               IF .TABLE_ENTRY [B_TYPE] EQL LIBSK_FMT_HEXSTRING
    249
250
251
252
253
254
255
                       0316
                                                     ITEM_LIST [0,0,16,0] = 256:
                                                                                                          ! Can't cvt more than 256 bytes
                       0318
                                         ELSE
                       0320
0321
0322
0323
                                               BEGIN
                                               RET_NUMBER [0,0,32,0] = 0; ! Zero the buffer RET_NUMBER [4,0,32,0] = 0; ITEM_LIST [4,0,32,0] = RET_NUMBER [0,0,0,0]; ! Return buffer ITEM_LIST [0,0,16,0] = 8; ! Buffer size (Quadword)
     256
257
                       0324
0325
0326
0327
     258
     259
                                               END:
                                         ITEM_LIST [8,0,32,0] = RET_LENGTH [0];
ITEM_LIST [12,0,32,0] = 0;
     260
                                                                                                          ! Return length
                                                                                                          ! End of list
     261
                        0328
     262
```

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```
LIB$$LEXICAL
                     Internal routines for lexical functions
                                                                                    16-Sep-1984 01:04:32
                                                                                                                   VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                   Page
                     LIB$$GETDVI - Internal routine for LIB$GETDVI
1-009
                                                                                    14-Sep-1984 12:39:06
                                                                                                                   [LIBRTL.SRC]LIBLEXICA.B32:1
   263
264
265
                                    RET_STATUS = $GETDVIW (EFN = .EVENT_FLAG, CHAN = .CHANNEL, DEVNAM = DEVNAM_DESCR [0,0,0,0], ITMLST = ITEM_LIS , IOSB = IOSB);
                    IF .RET_STATUS
                                     THEN
                                          RET_STATUS = .10SB [0];
                                     ! Check for errors.
                                     IF NOT .RET_STATUS
                                     THEN
                                          RETURN .RET_STATUS:
                                                                                    ! Return with error code
                                     ! Now call LIB$$FORMAT_RESULT to format the result, if necessary.
                                     LIB$$FORMAT_RESULT (RET_STRING [O], RET_NUMBER [0,0,0,0], RET_LENGTH [O],
                                          RET_TYPE [0]);
                     0350
                     0351
                                     RETURN SS$_NORMAL;
                     0352
0353
                                     END:
                                                                                              ! End of routine LIB$$GETDVI
                                                                                                 .TITLE LIB$$LEXICAL Internal routines for lexical func
                                                                                                                             tions
                                                                                                 .IDENT \1-009\
                                                                                                           OTS$CVT_L_TZ, LIB$$AB_GETDVI_TABLE
LIB$$AB_GETJPI_TABLE
LIB$$AB_GETSYI_TABLE
                                                                                                  .EXTRN
                                                                                                 .EXTRN
                                                                                                 .EXTRN
                                                                                                 .EXTRN
                                                                                                           SYS$GETDVIW
                                                                                                 .PSECT
                                                                                                           _LIB$CODE,NOWRT, SHR, PIC,2
                                                                        0000 00000
C2 00002
9E 00005
                                                                                                 .ENTRY
SUBL2
                                                                                                           LIB$$GETDVI, Save nothing
                                                                                                                                                                        0184
                                                                                                           #28, SP
                                                   ŚÕ
                                                       0000000G
                                                                                                           LIB$$AB_GETDVI_TABLE, TABLE_ENTRY (TABLE_ENTRY), ITEM_CODE
                                                                     00
60
03
60
63
                                                                                                                                                                        0284
                                                                                                 MOVAB
                                                                          B1
13
C0
95
12
                                            04
                                                   AC
                                                                              0000C 1$:
                                                                                                 CMPW
                                                                                                                                                                        0286
                                                                              00010
00012
00015
                                                                                                 BEQL
                                                                                                                                                                        0289
0290
                                                   50
                                                                                                 ADDL2
                                                                                                            #3, TABLE_ENTRY
                                                                                                            (TABLE_ENTRY)
                                                                                                 TSTW
                                                                               00017
                                                                                                 BNEQ
                                                                                                           DUMMY ENTRY, TABLE_ENTRY #8, DUMMY ENTRY+2
2(TABLE_ENTRY), aRET_TYPE
ITEM_CODE, ITEM_LIST*2
2(TABLE_ENTRY), #3
3$
                                                                     6E
08
                                                                           9Ē
                                                                              00019
                                                                                                                                                                        0293
                                                                                                 MOVAB
                                                                                                                                                                        0294
0303
                                                                           90
                                                                              0001C
                                                                                                 MOVB
MOVZBL
                                                                              00020 25:
00025
0002A
                                                   BC
                                                                     ĂŎ
                                                                           9Ã
                                                                          80
91
                                             0E
                                                   AE
03
                                                                                                                                                                        0309
                                                                     AC
                                                                                                 MOVW
                                                               Ŏ2
                                                                                                 CMPB
BGTRU
                                                                     AÓ
                                                                                                                                                                        0310
                                                                              0002E
00030
                                                                     19
                                                                           İÀ
                                                                                                           RET_STRING, ITEM_LIST+4
#512, ITEM_LIST
2(TABLE_ENTRY), #2
                                                                           DO
                                                                                                                                                                        0313
                                                                     AC
                                                                                                 MOVL
                                             00
                                                   AĒ
02
                                                            0200
                                                                     8F
                                                                           BO
                                                                              00035
                                                                                                                                                                        0314
                                                                                                 MOVW
                                                               ŎŽ
                                                                     ÃO
                                                                           91
                                                                               0003B
                                                                                                                                                                        0315
                                                                                                 CMPB
                                                                          12
B0
                                                                               0003F
                                                                      16
                                                                                                 BNEQ
                                                            0100
                                                                              00041
                                             00
                                                                                                            #256, ITEM_LIST
                                                                                                 MOVW
```

LIBSSLEXICAL 1-009	Internal routines for LIB\$\$GETDVI - Internal	lexical fun routine fo	C 4 ons 16-Sep-1984 01:04:32 VAX-1 IB\$GETUVI 14-Sep-1984 12:39:06 [LIBR	1 Bliss-32 V4.0-742 Page 9 TL.SRCJLIBLEXICA.B32;1 (5)
	10 00 14	50 0 AE AE AE 1	0E 11 00047 BRB 4\$ AC DO 00049 3\$: MOVL RET_NUMBER, 60 7C 0004D CLRQ (RO) 50 DO 0004F MOVL RO, ITEM_LI 08 BO 00053 MOVW #8, ITEM_LI AC DO 00057 4\$: MOVL RET_LENGTH, AE D4 0005C CLRL ITEM_LIST+1 7E 7C 0005F CLRQ -(SP) 7E D4 00061 CLRL -(SP)	· · · · · · · · · · · · · · · · · · ·
	0000000G	7E 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7E 04 00061 CLRL -(SP) AE 9F 00063 PUSHAB IOSB AE 9F 00066 PUSHAB ITEM_LIST AC DD 00069 PUSHL DEVNAM DESC AC 3C 0006C MOVZWL CHANNEL, -C AC DD 00070 PUSHL EVENT FLAG OB FB 00073 CALLS #8, SYS\$GET SO E9 0007A BLBC RET_STATUS, AE 3C 0007D MOVZWL IOSB, RET_S SO E9 00081 BLBC RET_STATUS, AC 7D 00084 MOVQ RET_LENGTH, AC 7D 00088 MOVQ RET_STRING, 04 FB 0008C CALLS #4, LIB\$\$FC 01 DO 00091 MOVL #1, RO 04 00094 5\$: RET	R SP) DVIW 5\$ TATUS 5\$ -(SP) -(SP)

; Routine Size: 149 bytes, Routine Base: _LIB\$CODE + 0000

```
D
                                                                                         4
LIB$$LEXICAL
                     Internal routines for lexical functions
                                                                                     16-Sep-1984 01:04:32
                                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                    Page
1-009
                     LIB$$GETJPI - Internal routine for LIB$GETJPI
                                                                                    14-Sep-1984 12:39:06
                                                                                                                    [LIBRTL.SRC]LIBLEXICA.B32:1
                                                                                                                                                                           (6)
                               XSBTTL 'LIB$$GETJPI - Internal routine for LIB$GETJPI' GLOBAL ROUTINE LIB$$GETJPI (
   289
291
291
293
293
296
297
                    0354
0355
0356
0357
                                    ITEM_CODE: WORD SIGNED,

RET_STRING: REF VECTOR [, BYTE],

RET_NUMBER: REF BLOCK [, BYTE],

RET_LENGTH: REF VECTOR [, WORD],

RET_TYPE: REF VECTOR [, LONG],
                                                                                       $GETJPI Item code
                                                                                       Return string buffer
                    0358
0359
                                                                                       Return numeric buffer
                                                                                       Returned length
                    0360
0361
                                                                                       Returned type code
                                     EVENT FLAG,
PIDADDR,
                                                                                       Event flag to use
Address of PID
                    0362
0363
   298
299
300
                                    PRCNAM DESCR: REF BLOCK [, BYTE]
): CALL_LEXICAL =
                                                                                       Process name descriptor
                     0364
                     0365
                    0366
0367
   301
   302
303
                                 FUNCTIONAL DESCRIPTION:
                     0368
                    0369
0370
0371
0372
0373
   304
                                          Kernel routine called from LIB$GETJPI and DCL to get job and
   305
                                          process information. See LIBSGETJPI for more information.
   306
307
                                  CALLING SEQUENCE:
   308
                    0374
0375
0376
0377
0378
0379
   309
                                          ret-status.wlc.v = LIB$$GETJPI (
   310
                                                                          item-code.rw.v,
   311
313
313
314
316
317
318
319
                                                                          ret-string.wt.r.
                                                                          ret-number.wq.r,
                                                                          ret-length.www.r,
                                                                          ret-type.wl.r.
                    0380
0381
0382
0383
                                                                          event-flag.rl.v,
                                                                          pidaddr.rā.v,
                                                                          prcnam-descr.rt.ds)
                    0384
                                 FORMAL PARAMETERS:
   0385
                    0386
                                          item-code
                                                                          The $GETJPI item code
                    0387
                    0388
                                                                          A string of length 512 into which
                                          ret-string
                    0389
                                                                          is placed the string-formatted value.
                    0390
                    0391
                                          ret-number
                                                                          A quadword into which is placed the numeric
                    0392
                                                                          value, if any.
                    0393
                    0394
                                          ret-length
                                                                          A word into which is placed the length of
                    0395
                                                                          the string in ret-string.
                    0396
0397
                                                                         A longword into which is placed the type code for the value being returned. The codes are LIB$K_FMT_xxx values defined
                                          ret-type
                    0398
                    0399
   335
                    0400
                                                                          in LIBFMTDEF.SDC.
                     0401
   336
                    0402
   337
                                          event-flag
                                                                          A longword event flag number to use for
   338
                                                                          the SGETJPI.
   339
                     0404
   340
341
                     0405
                                          pidaddr
                                                                          The address of the PID, if any, being inquired
                     0406
                                                                          about.
   342
343
                     0407
                     0408
                                          prcnam-descr
                                                                          A string descriptor for the process name
                    0409
   344
                                                                          being inquired about, if any
   345
                     0410
```

LIB\$\$LEXICAL	Internal routine LIB\$\$GETJPI - In	es for lexical functions in	unctions for LIBSGETJPI	E 4 16-sep-1984 01:04:32 14-sep-1984 12:39:06	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1	Page	11 (6)
346 347 349 355 355 355 355 361 363	0412	NONE IT OUTPUTS: NONE ITON STATUS: SS\$_NORMAL SS\$_XXX FFECTS: NONE	Normal success? Any error statu	ul completion us from \$GETJPIW			

```
F 4
16-Sep-1984 01:04:32
14-Sep-1984 12:39:06
                            Internal routines for lexical functions LIB$GETJPI
LIB$$LEXICAL
                                                                                                                                                                VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1
                                                                                                                                                                                                                                  Page 12 (7)
1-009
    365
3667
368
370
377
377
377
377
378
                            0433
0433
0433
0433
0433
0433
0433
0443
0443
                                                   BEGIN
                                      ととととととととというというと
                                                   Declare fieldset that defines the layout of a GETJPI_ITEM.
                                                  FIELD
                                                          GETJPI_ITEM_FIELDSET =
                                                                W_ITEM = [0,0,16,1],
B_TYPE = [0,16,8,0],
A_NEXT = [3,0,0,0]
TES:
                                                                                                                   ! JPI$ item code value ! LIB$K_FMT_ type code ! Offset of next item
                            0442
```

```
16-Sep-1984 01:04:32
14-Sep-1984 12:39:06
LIB$$LEXICAL
                         Internal routines for lexical functions
                                                                                                                                          VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1
                                                                                                                                                                                                   Page 13
                        LIB$$GETJPI - Internal routine for LIB$GETJPI
1-009
                                                                                                                                                                                                           (8)
                        0443
0444
0445
    381
383
383
384
385
3867
                                            LOCAL
                                                  TABLE_ENTRY: REF BLOCK [, BYTE] FIELD (GETJPI_ITEM_FIELDSET),
! Current table entry
                                                 DUMMY ENTRY: BLOCK [3, BYTE] FIELD (GETJPI ITEM FIELDSET), ITEM [IST: BLOCK [16, BYTE], I Item list for $GETJPI IOSB: VECTOR [4, WORD], Status block
                        04467
044489
044551
04553
045567
0457
04589
                                                  RET_STATUS;
                                                                                                       Return status
    388
    389
                                            ! Look up ITEM_CODE in LIB$$AB_GETJPI_TABLE.
    393
391
392
393
                                           TABLE_ENTRY = LIB$$AB_GETJPI_TABLE;
                                                                                                                ! Get first element.
    394
395
                                           WHILE .TABLE_ENTRY [W_ITEM] NEQ .ITEM_CODE
    396
397
                                                  TABLE_ENTRY = TABLE_ENTRY [A_NEXT];
IF .TABLE_ENTRY [W_ITEM] EQL 0
                         0460
                                                                                                                   Get next item
    398
                         0461
                                                                                                                 ! No more items?
                        0462
    399
                                                  THEN
    400
                                                        BEGIN
                                                        TABLE_ENTRY = DUMMY_ENTRY; ! Use dummy entry TABLE_ENTRY [B_TYPE] = LIB$K_FMT_BINARY;
    401
                         0464
    402
                         0465
    403
                        0466
                                                        EXITLOOP:
    404
                        0467
                                                        END:
    405
                        0468
                                                 END:
    406
                        0469
                        0470
    407
    408
                        0471
                                            ! Store type code.
                        0472 0473
    409
   410
   411
                        0474
                                           RET_TYPE [0] = .TABLE_ENTRY [B_TYPE];
   412
                        0475
                        0476
   414
                                            ! fill in ITEM_LIST and do the $GETJPI.
                        0478
                        0479
    416
                                           ITEM_LIST [0,16,16,0] = .ITEM_CODE; ! Item code IF .TABLE_ENTRY [B_TYPE] LEQ [IB$K_FMT_MAXSTRING
    417
                        0480
    418
                        0481
                        0482
0483
   419
421
423
423
424
427
428
429
430
                                           THEN
                                                  BEGIN
                        0484
0485
0486
0487
0488
                                                 ITEM_LIST [4,0,32,0] = RET_STRING [0]; ! Return ITEM_LIST [0,0,16,0] = $12; ! Buffer IF .TABLE_ENTRY [B_TYPE] EQL LIB$K_FMT_HEXSTRING
                                                                                                                   Return buffer
                                                        ITEM_LIST [0,0,16,0] = 256;
                                                                                                                ! Can't cut more than 256 bytes
                        0489
0490
                                           ELSE
                        0491
0492
0493
                                                  BEGIN
                                                 RET_NUMBER [0,0,32,0] = 0; ! Zero the buffer RET_NUMBER [4,0,32,0] = 0; ITEM_LIST [4,0,32,0] = RET_NUMBER [0,0,0,0]; ! Return buffer ITEM_LIST [0,0,16,0] = 8; ! Buffer size (Quadword)
   431
432
433
                        0494
                        0495
                        0496
                                                  END;
   434
                                           ITEM_LIST [8,0,32,0] = RET_LENGTH [0];
ITEM_LIST [12,0,32,0] = 0;
                        0497
                                                                                                                 ! Return length
                        0498
                                                                                                                 ! End of list
```

0499

```
LIB$$LEXICAL
                                                                        16-Sep-1984 01:04:32
14-Sep-1984 12:39:06
                  Internal routines for lexical functions
                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                                                                                                            Page
1-009
                  LIB$$GETJPI - Internal routine for LIB$GETJPI
                                                                                                    [LIBRTL.SRC]LIBLEXICA.B32:1
                                                                                                                                                  (8)
   437
438
439
                P 0500
                               0501
                  0502
0503
   440
                                IF .RET_STATUS
  0504
                  0505
                                    RET_STATUS = .10SB [0];
                  0506
                  0507
                  0508
                                 Check for errors.
                  0509
                  0510
                  0511
                               IF NOT .RET_STATUS
                  0512
0513
                                    RETURN .RET_STATUS:
                  0514
                  0515
                  0516
                                 Now call LIB$$FORMAT_RESULT to format the result, if necessary.
                  0517
                  0518
                  0519
                               LIB$$FORMAT_RESULT (RET_STRING [O], RET_NUMBER [0,0,0,0], RET_LENGTH [O],
                                    RET_TYPE [0]):
                  0520
                  0521
                 0522
0523
                               RETURN SS$_NORMAL:
   460
   461
                  0524
                               END:
                                                                                 ! End of routine LIB$$GETJPI
                                                                                    .EXTRN SYS$GETJPIW
                                                              0000 00000
                                                                                            LIB$$GETJPI, Save nothing
                                                                                                                                                 0355
                                                                                    .ENTRY
                                                                   00002
                                                                                             #28, SP
                                                                                   SUBL 2
                                            50
                                               0000000G
                                                                                            LIB$$AB_GETJPI_TABLE, TABLE_ENTRY (TABLE_ENTRY), ITEM_CODE
                                                            00
                                                                9Ē
                                                                   00005
                                                                                   MOVAB
                                                                                                                                                 0455
                                      04
                                                            60
                                                                   0000C 1$:
                                            AC
                                                                B1
                                                                                   CMPW
                                                                                                                                                 0457
                                                            ŎĔ
O3
                                                                13
                                                                   00010
                                                                                   BEQL
                                                                                   ADDL2
                                            50
                                                                CO
                                                                   00012
                                                                                             #3, TABLE_ENTRY
                                                                                                                                                 0460
                                                                   00015
                                                            60
                                                                B5
                                                                                   TSTW
                                                                                             (TABLE_ENTRY)
                                                                                                                                                 0461
                                                            F3
                                                                12
                                                                   00017
                                                                                   BNEQ
                                                                                            DUMMY_ENTRY, TABLE_ENTRY
#8, 2(TABLE_ENTRY)
2(TABLE_ENTRY), @RET_TYPE
ITEM_CODE, ITEM_LIST+2
                                                            6E
                                                                9E 00019
                                                                                   MOVAB
                                                                                                                                                 0464
                                      02
                                            A0
                                                            08
                                                                90 0001c
                                                                                   MOVB
                                                                                                                                                 0465
                                      14
                                            BC
                                                            ÃŌ
                                                                94
                                                                   00020 25:
                                                                                   MOVZBL
                                                                                                                                                 0474
                                            AE
03
                                      0E
                                                      04
                                                            AC
                                                                   00025
                                                                B0
                                                                                   MOVW
                                                                                                                                                 0480
                                                                                             2(TABLE_ENTRY), #3
                                                      Õ2
                                                            A0
                                                                91
                                                                   0002A
                                                                                   CMPB
                                                                                                                                                 0481
                                                            19
                                                                1A
                                                                   0002E
                                                                                   BGTRU
                                                            AC
8F
                                                                D0
                                                                   00030
                                                                                            RET_STRING, ITEM_LIST+4
#512, ITEM_LIST
                                                      80
                                                                                   MOVL
                                                                                                                                                 0484
                                            AE
02
                                      00
                                                    0200
                                                                   00035
                                                                                   MOVW
                                                                                                                                                 0485
                                                                B0
                                                      02
                                                            A0
                                                                91
                                                                   0003B
                                                                                   CMPB
                                                                                             2(TABLE_ENTRY), #2
                                                                                                                                                 0486
                                                            16
                                                                12 0003F
                                                                                   BNEQ
                                                            8F
                                      00
                                            AE
                                                    0100
                                                                BO 00041
                                                                                   MOVW
                                                                                             #256, ITEM_LIST
                                                                                                                                                 0488
```

0E

AC

60 50

80

AC

AE 7E

00

50

AE

AÈ

ÖÇ 14 11 00047

7C 0004D

DO 0004F

BO 00053

04 0005C 7C 0005F

D0

DO 00049 35:

00057 4\$:

BRB

MOVL

CLRQ

MOVL

MOVW

MOVL

CLRL

CLRQ

RET_NUMBER, RO

RO, ITEM_LIST+4

WB, ITEM_LIST
RET_LENGTH, ITEM_LIST+8
ITEM_LIST+12

(ROT

-(SPT

0481

0492

0494

0495

0497

0498

LIB\$\$LEXICAL 1-009	Internal routines for LIB\$\$GETJPI - Internal	lexical routine	functio for LI	ons B\$GETJPI	1 4 16-Sep-1984 01:04 14-Sep-1984 12:39	4:32 VAX-11 Bliss-32 V4.0-742 9:06 [LIBRTL.SRC]LIBLEXICA.B32;1	Page 15 (8)
	0000000G	7E 00 17 50 10 7E 7E CF	1 C 1 8 0 4 1 0 0 8	AE 9F 000 AC 9F 000 AC 7D 000 O7 FB 000 50 E9 000 AC 7D 000 AC 7D 000 AC 7D 000 AC 7D 000 O4 FB 000 O4 000	64 PUSHAB 67 MOVQ 6B PUSHL 6E CALLS 75 BLBC 78 MOVZWL 7C BLBC 7F MOVQ 83 MOVQ 87 CALLS 8C MOVE	ITEM_LIST PIDADDR, -(SP) EVENT FLAG #7, SYS\$GETJPIW RET STATUS, 5\$	0503 0505 0511 0520

; Routine Size: 144 bytes, Routine Base: _LIB\$CODE + 0095

```
LIB$$LEXICAL
                                                                               16-Sep-1984 01:04:32
                   Internal routines for lexical functions
                                                                                                             VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1
                                                                                                                                                         Page
1-009
                                                                               14-Sep-1984 12:39:06
                   LIB$$GETSYI - Internal routine for LIB$GETSYI
                   0525
0526
0527
0528
0529
0530
                             XSBTTL 'LIB$$GETSYI - Internal routine for LIB$GETSYI' GLOBAL ROUTINE LIB$$GETSYI (
   463
   464
                                  ITEM_CODE: WORD,

RET_STRING: REF VECTOR [, BYTE],

RET_NUMBER: REF VECTOR [, BYTE],

RET_LENGTH: REF VECTOR [, WORD],

RET_TYPE: REF VECTOR [, LONG],
   465
                                                                                 $GETSYI Item code
   466
                                                                                 Return string buffer
Return numeric buffer
   467
   468
                                                                                 Returned length
                   0531
0532
0533
   469
                                                                                 Returned type code
   470
                                  EVENT_FLAG.
                                                                                 Event flag to use
Address of CSID src/dest
   471
                                  CSIDADR.
   472
                                  NODENAMÉ DESCR: REF BLOCK [, BYTE]
): CALL_CEXICAL =
                   0534
                                                                                 Nodedname descriptor
                   0535
   474
                   0536
0537
   476
                   0538
                             ! FUNCTIONAL DESCRIPTION:
                   0539
   477
                   0540
   478
                                       Kernel routine called from LIB$GETSYI and DCL to get system-wide
   479
                   0541
                                       information. See LIB$GETSYI for more information.
                   0542
0543
   480
   481
                               CALLING SEQUENCE:
   482
483
                   0544
                   0545
                                       ret-status.wlc.v = LIB$$GETSY1 (
                   0546
   484
                                                                     item-code.rw.v,
   485
                   0547
                                                                     ret-string.wt.r,
   486
                   C548
                                                                     ret-number.wq.r,
   487
                   0549
                                                                     ret-length.www.r,
   488
                   0550
                                                                     ret-type.wl.r,
   489
                   0551
                                                                     event-flag.rl.v.
                   0552
0553
   490
                                                                     csidadr.ra.v,
   491
                                                                     nodename-descr.rt.ds)
   492
                   0554
   493
                   0555
                               FORMAL PARAMETERS:
   494
                   0556
   495
                   0557
                                       item-code
                                                                     The $GETSYI item code
   496
                   0558
   497
                   0559
                                                                     A string of length 512 into which
                                       ret-string
   498
                   0560
                                                                     is placed the string-formatted value.
   499
                   0561
   500
                   0562
                                                                     A quadword into which is placed the numeric
                                       ret-number
   501
                   0563
                                                                     value, if any.
   502
503
                   0564
                   0565
                                                                     A word into which is placed the length of
                                       ret-length
   504
                   0566
                                                                     the string in ret-string.
   505
                   0567
   506
507
                   0568
                                                                     A longword into which is placed the type
                                       ret-type
                   0569
                                                                     code for the value being returned. The
                                                                     codes are LIB$K_FMT_xxx values defined
   508
                   0570
   509
                   0571
                                                                     in LIBFMTDEF.SDE.
   510
                   0572
   511
                   0573
                                                                     A longword event flag number to use for the $GETSY1.
                                       event-flag
   512
513
                   0574
                   0575
                   0576
0577
   514
                                       csidadr
                                                                     The address of CSID source/destination.
   515
                                                                     if any, being inquired about.
   516
517
518
519
                   0578
                   0579
                                       nodename-descr
                                                                     A string descriptor for the nodename being
                   0580
                                                                     inquired about, in any.
                   0581
```

LIB\$\$LEXICAL	<pre>Internal routines for lexical functions LIB\$\$GETSYI - Internal routine for LIB\$GETSY</pre>	I 14-Sep-1984 01:04:32	VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1
520 522 522 522 522 522 522 522 522 522	0582 1 IMPLICIT INPUTS: 0583 1 0584 1 NONE 0585, 1 0588 1 NONE 0589 1 0590 1 COMPLETION STATUS: 0591 1 0592 1 SS\$_NORMAL Normal succe 0593 1 SS\$_xxx Any error st 0594 1 0595 1 SIDE EFFECTS: 0596 1 0597 1 NONE	essful completion atus from \$GETSYIW	

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L I 1-

Page 18 (10)

```
LIB$$LEXICAL
                    Internal routines for lexical functions
                                                                                  16-Sep-1984 01:04:32
                                                                                                                 VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1
1-009
                    LIBSSGETSYI - Internal routine for LIBSGETSYI 14-Sep-1984 12:39:06
   554
555
556
557
558
559
                    0614
                                    LOCAL
                                         TABLE_ENTRY: REF BLOCK [, BYTE] FIELD (GETSYI_ITEM_FIELDSET),
                    0616
0617
0618
0619
0621
0623
0623
0626
0627
0628
                                                                                    Current table entry
                                         DUMMY_ENTRY: BLOCK [3, BYTE] FIELD (GETSYL ITEM_FIELDSET), IOSB: VECTOR [4, WORD], I/O status block ITEM_LIST: BLOCK [16, BYTE], Item list for $GETSYL
   560
                                         RET_STATUS:
                                                                                    Return status
   561
   562
563
564
                                    ! Look up ITEM_CODE in LIB$$AB_GETSYI_TABLE.
   565
   566
                                    TABLE_ENTRY = LIB$$AB_GETSYI_TABLE;
                                                                                            ! Get first element.
   567
   568
                                    WHILE .TABLE_ENTRY [W_ITEM] NEQ .ITEM_CODE
                    0629
0630
   569
   570
                                         BEGIN
                    0631
0632
0633
                                         TABLE_ENTRY = TABLE_ENTRY [A_NEXT];
IF _.TABLE_ENTRY [W_ITEM] EQL 0
   571
                                                                                             ! Get next item
   572
573
574
575
576
                                                                                             No more items?
                                         THEN
                    0634
                                              BEGIN
                                              TABLE_ENTRY = DUMMY_ENTRY; ! Use TABLE_ENTRY [B_TYPE] = LIB$K_FMT_BINARY; EXITLOOP;
                    0635
                                                                                             ! Use dummy entry
                    0636
   577
                    0637
   578
                    0638
                                              END:
   579
                    0639
                                         END:
   580
                    0640
   581
                    0641
   582
583
584
585
                    0642
                                    ! Store type code.
                    0644
                    0645
                                    RET_TYPE [0] = .TABLE_ENTRY [B_TYPE];
   586
587
                    0646
                    0647
  588
                                    ! fill in ITEM_LIST and do the $GETSYI.
                    0648
   589
                    0649
   590
                    0650
   591
                    0651
                                    ITEM_LIST [0,16,16,0] = .ITEM_CODE; ! Item code
   592
593
594
595
                    0652
0653
                                    IF .TABLE_ENTRY [B_TYPE] LEG [IB$K_FMT_MAXSTRING
                                    THEN
                    0654
                                         BEGIN
                    0655
                                         ITEM_LIST [4,0,32,0] = RET_STRING [0];
ITEM_LIST [0,0,16,0] = 512;
                                                                                               Return buffer
   596
597
                    0656
                                                                                               Buffer size
                    0657
0658
                                         IF .TABLE_ENTRY [B_TYPE] EQL LIBSK_FMT_HEXSTRING
   598
   599
                    0659
                                              ITEM_LIST [0,0,16,0] = 256;
                                                                                            ! Can't cvt more than 256 bytes
   600
                    0660
                                         END
   601
                    0661
                                    ELSE
   602
                    0662
                                         BEGIN
                                         ITEM_LIST [4,0,32,0] = RET_NUMBER [0];
ITEM_LIST [0,0,16,0] = 8;
                                                                                               Return buffer
                                                                                               Buffer size (Quadword)
   604
                    0664
   605
                    0665
                                         END:
                                   ITEM_LIST [8,0,32,0] = RET_LENGTH [0];
ITEM_LIST [12,0,32,0] = 0;
   606
                    0666
                                                                                               Return length
   607
                    0667
                                                                                               End of list
   608
                    0668
   609
                   0669
                                    RET_STATUS = $GETSYIW (EFN = .EVENT_FLAG, CSIDADR = .CSIDADR
   610
                                         NODENAME = .NODENAME_DESCR, ITMLST = ITEM_LIST, IOSB = IOSB);
                    0670
```

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```
Internal routines for lexical functions 16-Sep-1984 01:04:32 LIB$$GETSYI - Internal routine for LIB$GETSYI 14-Sep-1984 12:39:06
LIB$$LEXICAL
                                                                                                                            VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1
                                                                                                                                                                                Page 20 (11)
1-009
                       0671
                       0672
0673
   612
                                        IF .RET_STATUS
                                        THEN
                       0674
    614
                                             RET_STATUS = .10SB [0];
                       0675
    615
                      0676
                                        IF NOT .RET_STATUS
    616
   617
                                        THEN
                      0678
0679
                                             RETURN .RET_STATUS;
    618
   619
   620
621
623
623
625
                      0680
                      0681
                                        ! Now call LIB$$FORMAT_RESULT to format the result.
                      0682
0683
                      0684
                                       LIB$$FORMAT_RESULT (RET_STRING [O], RET_NUMBER [O], RET_LENGTH [O],
                      0685
                                             RET_TYPE [0]):
   626
627
                      0686
                      0687
                                       RETURN SS$_NORMAL:
                      0388
    628
    629
                      0689
                                        END:
                                                                                                      ! End of routine LIB$$GETSYI
                                                                                                         .EXTRN SYSSGETSYIW
                                                                              0000 00000
                                                                                                                                                                                      0526
                                                                                                          .ENTRY
                                                                                                                    LIB$$GETSYI, Save nothing
                                                                                                                    #28, SP
LIB$$AB_GETSYI_TABLE, TABLE_ENTRY
(TABLE_ENTRY), ITEM_CODE
                                                                                 CŽ
9E
                                                       5E
50
                                                                                     00002
                                                                                                         SUBL 2
                                                           0000000G
                                                                           00
                                                                                     00005
                                                                                                         MOVAB
                                                                                                                                                                                      0626
                                                                           60
0E
03
                                                       AC
                                                                                 B1
                                                                                     0000C 1$:
                                                                                                         CMPW
                                                                                                                                                                                      0628
                                                                                 13
                                                                                     00010
                                                                                                         BEOL
                                                                                                                    #3, TABLE_ENTRY (TABLE_ENTRY)
                                                       50
                                                                                 CO
                                                                                     00012
                                                                                                         ADDL2
                                                                                                                                                                                      0631
                                                                           60
F3
                                                                                 B5
12
                                                                                     00015
                                                                                                                                                                                      0632
                                                                                                         TSTW
                                                                                     00017
                                                                                                         BNEQ
                                                                                                                    DUMMY_ENTRY, TABLE_ENTRY
#8, 2(TABLE_ENTRY)
2(TABLE_ENTRY), aRET_TYPE
ITEM_CODE, ITEM_LIST+2
2(TABLE_ENTRY), #3
                                                                           6E
08
A0
AC
                                                                                 9Ē
90
                                                                                     00019
                                                                                                         MOVAB
                                                                                                                                                                                      0635
                                                       A0
                                                                                     0001c
                                                                                                         MOVB
                                                                                                                                                                                      0636
                                                                    02
04
02
                                                       BC
                                                                                 9A
                                                                                     00020 25:
                                                                                                         MOVZBL
                                                                                                                                                                                      0645
                                                       ĀĒ
03
                                                                                 B0
                                                                                     00025
                                                                                                         MOVW
                                                                                                                                                                                      0651
                                                                           A0
19
                                                                                 91
                                                                                                         CMPB
                                                                                     0002A
                                                                                                                                                                                      0652
                                                                                 14
                                                                                     0002E
                                                                                                         BGTRU
                                                                                                                    RET_STRING, ITEM_LIST+4
#512, ITEM_LIST
2(TABLE_ENTRY), #2
                                                       AE
AE
02
                                                                    80
                                                                           AC
                                                                                 DO
                                                                                     00030
                                                                                                                                                                                      0655
                                                                                                         MOVL
                                                                 0200
                                                                           8F
                                                                                 B0
                                                                                     00035
                                                                                                         MOVW
                                                                                                                                                                                      0656
                                                                    02
                                                                           A0
                                                                                 91
                                                                                     0003B
                                                                                                         CMPB
                                                                                                                                                                                      0657
                                                                           11
                                                                                 12
                                                                                     0003F
                                                                                                         BNEQ
                                                                                                                    #256, ITEM_LIST
                                                       AE
                                                                 0100
                                                                                 B0
                                                                                     00041
                                                                                                                                                                                      0659
                                                04
                                                                                                         MOVW
                                                                           09
                                                                                 11
                                                                                     00047
                                                                                                                                                                                      0652
                                                                                                         BRB
                                                                                                                    RET_NUMBER, ITEM_LIST+4
#8, ITEM_LIST
RET_LENGTH, ITEM_LIST+8
ITEM_LIST+12
-(SP)
                                                                                 DO
                                                                                     00049 35:
                                                                                                         MOVL
                                                                                                                                                                                      0663
                                                                           80
AC
                                                                                    0004E
00052 4$:
                                                       AĒ
                                                                                 B0
                                                                                                         MOVW
                                                                                                                                                                                      0664
                                                       AĒ
                                                                                 DO
                                                                                                         MOVL
                                                                                                                                                                                      0666
                                                                           AE
7E
                                                                    10
                                                                                 D4
                                                                                     00057
                                                                                                         CLRL
                                                                                                                                                                                      0667
                                                                                 7C
                                                                                     0005A
                                                                                                         CLRQ
                                                                                                                                                                                      0670
                                                                           AE
                                                                                 9F
                                                                                     0005C
                                                                                                         PUSHAB
                                                                                                                    IOSB
                                                                    10
                                                                           AE
AC
AC
O7
50
                                                                                 9F
                                                                                     0005F
                                                                                                         PUSHAB
                                                                                                                    ITEM_LIST
                                                                                                                    CSIDADR, -(SP)
EVENT FLAG
W7, SYS$GETSYIW
RET_STATUS, 5$
IOSB, RET_STATUS
RET_STATUS, 5$
                                                                                 ŹĎ
                                                       7E
                                                                    10
                                                                                     00062
                                                                                                         MOVQ
                                                                                 DD
                                                                                     00066
                                                                                                         PUSHL
                                                                                FB E9
                                                       00
17
                                        0000000G
                                                                                     00069
                                                                                                         CALLS
                                                                                     00070
                                                                                                         BLBC
                                                                                                                                                                                      0672
                                                       50
                                                                                     00073
                                                                                                         MOVZWL
                                                                                                                                                                                      0674
```

E 9

00077

BLBC

B 5 16-Sep-1984 01:04:32 14-Sep-1984 12:39:06 LIBSSLEXICAL 1-009 Internal routines for lexical functions
LIB\$\$GETSYI - Internal routine for LIB\$GETSYI VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1 Page 21 (11) 7E 7E CF 50 AC 7D 0007A AC 7D 0007E 04 FB 00082 01 D0 00087 04 0008A 5\$: RET_LENGTH, -(SP)
RET_STRING, -(SP)
#4, LIB\$\$fORMAT_RESULT
#1, RO MOVQ MOVQ 0685 0000v CALLS 0687 0689 MOVL RET

; Routine Size: 139 bytes, Routine Base: _LIB\$CODE + 0125

```
5
                                                                                        16-Sep-1984 01:04:32
14-Sep-1984 12:39:06
LIB$$LEXICAL
                      Internal routines for lexical functions
                                                                                                                         VAX-11 Bliss-32 V4.0-742
1-009
                     LIB$$fORMAT_RESULT - format the result
                                                                                                                          [LIBRTL.SRC]LIBLEXICA.B32:1
                                **SBTTL 'LIB$$FORMAT RESULT - format the result'
GLOBAL ROUTINE LIB$$FORMAT RESULT (
    RET_STRING: REF VECTOR [, BYTE], ! Return
    RET_NUMBER: REF BLOCK [, BYTE], ! Return
    RET_LENGTH: REF VECTOR [, WORD], ! Return
    RET_TYPE: REF VECTOR [, LONG] ! Return
   631
633
633
633
633
633
633
633
                     0691
                     0692
0693
                                                                                          Return string buffer
                                                                                           Return numeric buffer
                      0694
                                                                                           Returned length
                     0695
                                                                                        ! Returned type code
                                      ): NOVALUE =
                      0696
                     0697
                     0698
                     0699
0700
   640
                                 ! FUNCTIONAL DESCRIPTION:
   641
                     0701
0702
0703
   642
643
                                            Called by LIB$$GETxxI routines to convert the value returned
                                            by the $GETxxI service to the appropriate string format.
   644
                     0704
0705
   645
                                   CALLING SEQUENCE:
   646
   647
                     0706
                                            CALL LIB$$FORMAT_RESULT (ret-string.mt.r, ret-number.rq.r,
   648
                     0707
                                                       ret-length.mwu.r, ret-type.rl.r)
                     0708
   649
650
651
653
654
655
657
658
                     0709
                                   FORMAL PARAMETERS:
                     0710
                     0711
                                                                  A string of length 512 into which
                                            ret-string
                     0712
0713
                                                                  is placed the formatted result. If the
                                                                  value type is already a string, the value
                     0714
                                                                  is in ret-string.
                     0715
                     0716
                                            ret-number
                                                                  A quadword containing the numeric value to
                     0717
                                                                  be formatted.
   659
                     0718
   660
                     0719
                                            ret-length
                                                                  A word containing the current length of the
                     0720
0721
0722
0723
   661
                                                                  string in ret-string, if any, and into which
   662
                                                                  is stored the length of the formatted result.
   663
                                                                 A longword indicating the type of the value. The type codes are LIB$K_FMI_xxx symbols and are defined in LIBFMIDEF.SDL.
   664
                                            ret-type
                     0724
0725
   665
   666
                     0726
0727
0728
0729
   667
   668
                                   IMPLICIT INPUTS:
   669
670
                                            NONE
   671
672
673
                     0730
                     0731
0732
0733
0734
                                   IMPLICIT OUTPUTS:
   674
675
                                            NONE
                     0735
   676
                                   COMPLETION STATUS:
   677
                     0736
                     0737
0738
   678
                                            NONE
   679
   680
                     0739
                                   SIDE EFFECTS:
   681
                     0740
   682
683
                     0741
                             1
                                            NONE
                     0742
0743
                            1
   684
                             1 !--
                     0744
   €85
   £86
                                      BEGIN
   687
                     0746
```

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```
16-Sep-1984 01:04:32
14-Sep-1984 12:39:06
LIBSSLEXICAL
                                                  Internal routines for lexical functions
                                                                                                                                                                                                                                                                                    VAX-11 Bliss-32 V4.0-742
                                                  LIB$$FORMAT_RESULT - format the result
                                                                                                                                                                                                                                                                                    [LIBRTL.SRC]LIBLEXICA.B32:1
                                                 0747
0748
0749
0750
0751
0752
0753
0755
         688
                                                                                                   CTRSTR DESCR: BLOCK [E, BYTE],
OUTSTR DESCR: BLOCK [8, BYTE],
PRMLST: VECTOR [4, LONG];
        689
                                                                                                                                                                                                         ! FAO control string descriptor
                                                                                                                                                                                                    Output string descriptor
        69912345696789012345577007
                                                                                                                                                                                                              FAOL parameter list
                                                                                        ! Table of ACP type names.
                                                 0756
0757
0758
0759
                                                                                       BIND
                                                                                                    ACP_TYPES = UPLIT BYTE (
"MASCIC'UNKNOWN',
                                                                                                               *ASCIC'UNKNUUN', ! U

*ASCIC'F11V1',0,0, $ASSUME (DVISC_ACP_F11V1, EQL, 1)

*ASCIC'F11V2',0,0, $ASSUME (DVISC_ACP_F11V2, EQL, 2)

*ASCIC'MTA',0,0,0,0,$ASSUME (DVISC_ACP_MTA, EQL, 3)

*ASCIC'NET',0,0,0,0,$ASSUME (DVISC_ACP_NET, EQL, 4)

*ASCIC'REM',0,0,0,0,$ASSUME (DVISC_ACP_REM, EQL, 5)

*ASCIC'JNL',0,0,0,0)

*ASCIC'JNL',0,0,0,0,$ASSUME (DVISC_ACP_JNL, EQL, 6)
                                                 0760
0761
0762
0763
                                                 0764
                                                                                                                 . VECTOR [, LONG]:
                                                 0766
0767
         708
         709
                                                 0768
                                                                                        ! Table of process state names.
         710
                                                 711
        712
                                                                                       BIND
                                                                                                             TES = UPLIT BYTE (

XASCIC'UNKNOWN', ! O

XASCIC'COLPG'.O.O. $ASSUME (SCH$C_COLPG. EQL. 1)

XASCIC'MWAIT'.O.O. $ASSUME (SCH$C_MWAIT. EQL. 2)

XASCIC'CEF'.O.O.O.O.$ASSUME (SCH$C_CEF. EQL. 3)

XASCIC'LEF'.O.O.O.O.$ASSUME (SCH$C_LEF. EQL. 5)

XASCIC'LEFO'.O.O.O.$ASSUME (SCH$C_LEF. EQL. 5)

XASCIC'HIB'.O.O.O.$ASSUME (SCH$C_LEF. EQL. 6)

XASCIC'HIB'.O.O.O.$ASSUME (SCH$C_HIB. EQL. 7)

XASCIC'HIBO'.O.O.O.$ASSUME (SCH$C_HIB. EQL. 7)

XASCIC'SUSP'.O.O.O.$ASSUME (SCH$C_SUSP. EQL. 8)

XASCIC'SUSPO'.O.O.$ASSUME (SCH$C_SUSP. EQL. 9)

XASCIC'FPG'.O.O.O.O.$ASSUME (SCH$C_SUSPO. EQL. 10)

XASCIC'COM'.O.O.O.$ASSUME (SCH$C_COM. EQL. 12)

XASCIC'COMO'.O.O.O.$ASSUME (SCH$C_COM. EQL. 12)

XASCIC'CUR'.O.O.O.$ASSUME (SCH$C_COM. EQL. 13)

XASCIC'CUR'.O.O.O.O.$ASSUME (SCH$C_COM. EQL. 13)

XASCIC'CUR'.O.O.O.O.$ASSUME (SCH$C_COM. EQL. 13)
                                                                                                    STATES = UPLIT BYTE (
        ! Table of process mode names.
                                                                                       BIND
                                                                                                   MODES = UPLIT BYTE (
XASCIC'OTHER',
XASCIC'NETWORK',
XASCIC'BATCH',
                                                                                                              *ASCICIOTHER', SASSUME (JPISK_OTHER, EQL, 0)

*ASCIC'NETWORK', SASSUME (JPISK_NETWORK, EQL, 1)

*ASCIC'BATCH', SASSUME (JPISK_BATCH, EQL, 2)

*ASCIC'INTERACTIVE', SASSUME (JPISK_INTERACTIVE, EQL, 3)

0) ! End of list

: VECTOR F RYTER:
                                                                                                                 : VECTOR [, BYTE];
                                                                                        ! +
```

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```
E 5
16-Sep-1984 01:04:32
LIB$$LEXICAL
                                                                                                                                                                                                                                                                                                                                                                                             VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1
                                                                     Internal routines for lexical functions
                                                                    LIB$$FORMAT_RESULT - Format the result
                                                                                                                                                                                                                                                                                     14-Sep-1984 12:39:06
                                                                    0804
0805
                                                                                                                          !_Table of privilege names.
           0806
0807
0808
                                                                                                                                     DBAL BIND

LIB$AT PRV NAMES = UPLIT BYTE (

XASCIC'TMKRRL', SASSUME ($BITPOSITION(PRV$V_CMKRNL), EQL, 0)

XASCIC'TMKRRL', SASSUME ($BITPOSITION(PRV$V_CMEXEC), EQL, 1)

XASCIC'SYSAAM', SASSUME ($BITPOSITION(PRV$V_SYSAAM), EQL, 2)

XASCIC'GRPNAM', SASSUME ($BITPOSITION(PRV$V_GREXEC), EQL, 3)

XASCIC'GRPNAM', SASSUME ($BITPOSITION(PRV$V_GREXEC), EQL, 3)

XASCIC'DETACH', SASSUME ($BITPOSITION(PRV$V_DIAGNOSE), EQL, 4)

XASCIC'DETACH', SASSUME ($BITPOSITION(PRV$V_DIAGNOSE), EQL, 6)

XASCIC'DETACH', SASSUME ($BITPOSITION(PRV$V_DIAGNOSE), EQL, 6)

XASCIC'DETACH', SASSUME ($BITPOSITION(PRV$V_DIAGNOSE), EQL, 6)

XASCIC'GROOP', SASSUME ($BITPOSITION(PRV$V_GROUP), EQL, 7)

XASCIC'PRMCEB', SASSUME ($BITPOSITION(PRV$V_PRWBDY), EQL, 10)

XASCIC'PRMCEB', SASSUME ($BITPOSITION(PRV$V_PRWBDY), EQL, 11)

XASCIC'PRMABX', SASSUME ($BITPOSITION(PRV$V_PRWBDY), EQL, 11)

XASCIC'SETPRI', SASSUME ($BITPOSITION(PRV$V_PSWAPM), EQL, 12)

XASCIC'SETPRI', SASSUME ($BITPOSITION(PRV$V_PSWAPM), EQL, 12)

XASCIC'SETPRI', SASSUME ($BITPOSITION(PRV$V_PSWAPM), EQL, 14)

XASCIC'TMPMBX', SASSUME ($BITPOSITION(PRV$V_PSWAPM), EQL, 14)

XASCIC'TMPMBX', SASSUME ($BITPOSITION(PRV$V_PSWAPM), EQL, 16)

XASCIC'TMPMBX', SASSUME ($BITPOSITION(PRV$V_PRWDX), EQL, 16)

XASCIC'TMPMBX', SASSUME ($BITPOSITION(PRV$V_PRWDX), EQL, 16)

XASCIC'TMPMBX', SASSUME ($BITPOSITION(PRV$V_PRWDX), EQL, 16)

XASCIC'TMPMBX', SASSUME ($BITPOSITION(PRV$V_PHY_ID), EQL, 20)

XASCIC'SHOPEN', SASSUME ($BITPOSITION(PRV$V_PHY_ID), EQL, 21)

XASCIC'SYSGBL', SASSUME ($BITPOSITION(PRV$V_PRWGBL), EQL, 22)

XASCIC'SHARE', SASSUME ($BITPOSITION(PRV$V_PRWGBL), EQL, 22)

XASCIC'SHOPEN', SASSUME ($BITPOSITION(PRV$V_PRWGBL), EQL, 22)

XASCIC'SHOPEN', SASSUME ($BITPOSITION(PRV$V_PRWGBL), EQL, 23)

XASCIC'SHOPEN', SASSUME ($BITPOSITION(PRV$V_PRWGBL), EQL, 24)

XASCIC'SHARE', SASSUME ($BITPOSITION(PRV$V_PRWGBL), EQL, 26)

                                                                                                                        GLOBAL BIND
                                                                                                                                           LIB$$AT_PRV_NAMES = UPLIT BYTE (
                                                                   0809
0810
0811
0812
0813
0814
0815
0816
0817
0818
                                                                    0820
0821
0822
0823
0824
0825
                                                                    0826
                                                                    0827
                                                                    0828
                                                                    0829
0830
                                                                    0831
                                                                    0832
                                                                    0833
                                                                    0834
                                                                    0835
                                                                    0836
                                                                    0837
                                                                    0838
                                                                    0839
           781
782
783
784
786
786
787
787
791
7793
7798
7798
7799
                                                                    0840
                                                                    0841
                                                                    0842
0843
                                                                    0844
                                                                    0845
                                                                    0846
                                                                    0847
                                                                                                                                          *ASCIC'SECURITY', *ASSUME (*BITPOSITION(PRV$V_SECURITY), EQL, 6) ! 38
                                                                    0848
                                                                                                                                                                              ! End of list
                                                                    0849
                                                                                                                                          : VECTOR [, BYTE];
                                                                    0850
                                                                    0851
                                                                    0852
0853
                                                                                                                          ! Fill in constant descriptor information.
                                                                    0854
0855
                                                                                                                       CTRSTR_DESCR [DSC$B_DTYPE] = DSC$K_DTYPE_T;
CTRSTR_DESCR [DSC$B_CLASS] = DSC$K_CLASS_S;
OUTSTR_DESCR [DSC$B_DTYPE] = DSC$K_DTYPE_T;
OUTSTR_DESCR [DSC$B_CLASS] = DSC$K_CLASS_S;
OUTSTR_DESCR [DSC$W_LENGTH] = 512;
                                                                     0856
                                                                     0857
                                                                     0858
            800
                                                                     0859
                                                                     0860
                                                                                                                         OUTSTR_DESCR [DSC$A_POINTER] = RET_STRING [O];
```

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RET_LENGTH $[0] = .RET_LENGTH [0] * 2;$

Page

```
LIB$$LEXICAL
                 Internal routines for lexical functions
                                                                       16-Sep-1984 01:04:32
                                                                                                 VAX-11 Bliss-32 V4.0-742
1-009
                 LIB$$FORMAT_RESULT - Format the result
                                                                      14-Sep-1984 12:39:06
                                                                                                 [LIBRTL.SRC]LIBLEXICA.B32:1
                 0918
0919
0920
0921
0923
0924
0925
0927
                                       CH$MOVE (.CTRSTR_DESCR [DSC$W_LENGTH], TEMP_STRING,
   860
                                            RET_STRING [0]);
  861
  862
863
                                  864
  865
   866
   867
   868
  869
                 0928
  870
               P 0929
  871
                 0930
  872
873
                 0931
                                       END;
                 0932
                 0933
  874
                                   [LIB$K_FMT_PRIVILEGE]:
  875
                 0934
                                       BEGIN
                 0935
  876
                                       LOCAL
  877
                 0936
                                            STRING PTR.
                                                                       ! Pointer to current char in string
                 0937
  878
                                            PRV_NAME: REF VECTOR [, BYTE], ! Privilege name
  879
                 0938
                                                                       ! Current privilège number
  880
                 0939
                 0940
  881
                                       STRING_PTR = RET_STRING [0]; ! First position in string
                                       PRV_NAME = LIBSSAT_PRV_NAMES [0];
                 0941
  882
                                                                                ! First privilege name
                 0942
0943
  883
                                       INCRU PRV FROM 0 TO 63 DO
  884
                                            BEGIN
  885
                 0944
                                            IF .PRV_NAME [0] EQL 0 ! No more defined privilege names
  886
                 0945
                                            THEN
  887
                 0946
                                                EXITLOOP
                 0947
  888
                                            IF .RET_NUMBER [0,.PRV,1,0]
                                            THEN
  889
                 0948
  890
                 0949
                                                BEGIN
  891
                 0950
                                                STRING_PTR = CH$MOVE (.PRV_NAME [0], PRV_NAME [1],
  892
                 0951
                                                .STRING PTR);
CH$WCHAR_A (%C', , STRING PTR);
  893
                 0952
  894
                 0953
  895
                 0954
                                            PRV_NAME = .PRV_NAME + .PRV_NAME [0] + 1;
                                                                                                 ! Next name
  896
                 0955
  897
                 0956
                                       IF .STRING_PTR NEGA RET_STRING [0]
                 0957
  898
  899
                 0958
                                            STRING_PTR = .STRING_PTR - 1; ! Trim_trailing comma
                 0959
  900
                                       RET_LENGTH [0] = .STRING PTR - RET_STRING [0];
                                                                                                ! Get length
  901
                 0960
  902
                 0961
                 0962
  903
                                   [LIB$K_FMT_UIC]:
  904
                 0963
                                       BEGIN
  905
                 0964
                                       CTRSTR_DESCR [DSC$W_LENGTH] = %CHARCOUNT ('!XU');
CTRSTR_DESCR [DSC$A_POINTER] = UPLIT BYTE ('!XU');
  906
                 0965
                                       PRMLST [0] = .RET_NOMBER [0.0,32,0];
$FAOL (CTRSTR = CTRSTR_DESCR_[0.0,0,0],
                 0966
   907
  908
                 0967
  909
                 0968
                                               OUTLEN = RET_LENGTH [0]
  910
               P 0969
                                               OUTBUF = OUTSTR_DESCR [0,0,0,0],
  911
                 0970
                                               PRMLST = PRMLST [0]);
  912
                 0971
                                       END:
                 0972
0973
  914
                                   [LIB$K_FMT_PROT, LIB$K_FMT_VPROT]:
  915
                                       BEGIN
```

Page

```
16-Sep-1984 01:04:32
14-Sep-1984 12:39:06
LIB$$LEXICAL
                     Internal routines for lexical functions
                                                                                                                       VAX-11 Bliss-32 V4.0-742
                     LIB$$FORMAT_RESULT - Format the result
1-009
                                                                                                                       [LIBRTL.SRC]LIBLEXICA.B32:1
                                                LOCAL
   917
                     0976
                                                      PSTRING: VECTOR [24, BYTE],
   918
                     0977
                                                      PSTRING PTR.
                                                      PROT_CHARS: REF VECTOR [, BYTE], PROT_FIELD: BLOCK [1, BYTE];
   919
                     0978
   920
                     0979
   9223456789933345
92234567899333345
                     0980
                     0981
                     0982
0983
0984
0985
0986
0988
0989
0990
0991
                                                  Select the correct protection codes for files or volumes.
                                                 IF .RET_TYPE EQL LIB$K_FMT_PROT
                                                      PROT_CHARS = UPLIT BYTE ('RWED')
                                                     PROT_CHARS = UPLIT BYTE ('RWLP');
                                                PSTRING_PTR = PSTRING [0];
                     0992
                                                INCR I FROM 0 TO 3 BY 1 DO
                     0993
                                                      BEGIN
                     0994
                                                      LOCAL
   936
                     0995
                                                     THIS_STRING: REF VECTOR [, BYTE];
PRMLST [.]] = .PSTRING_PTR;
   937
                     0996
                                                     THIS STRING = .PSTRING PTR;
CH$WCHAR A (0, PSTRING PTR); ! Set in
PROT_FIELD = .RET_NUMBER [0,.1+4,4,0] XOR %X'F';
   938
                     0997
   939
                     0998
                                                                                                              Set initial length
   940
                     0999
                                                      IF .PROT_FIELD NEG O
                     1000
   941
   942
943
                     1001
                                                      THEN
                     1002
                                                           BEGIN
   944
                     1003
                                                           CHSWCHAR_A (%C'=', PSTRING_PTR);
THIS_STRING [O] = .THIS_STRING [O] + 1;
   945
                     1004
                                                           INCR J FROM O TO 3 BY 1 DO
   946
                     1005
   947
                     1006
                                                                BEGIN
   948
                     1007
                                                                 IF .PROT_FIELD [0,.J,1,0]
   949
                     1008
                                                                 THEN
   950
951
952
953
954
955
                     1009
                     1010
                                                                      CH$WCHAR_A (.PROT_CHARS [.J], PSTRING_PTR);
                     1011
                                                                      THIS_STRING [O] = .THIS_STRING [O] + T;
                     1012
                                                                      END:
                                                                END:
                     1014
                                                           END:
   956
957
                     1015
                                                      END:
                     1016
                                                CTRSTR_DESCR [DSC$w_LENGTH] = XCHARCOUNT_('SYSTEM!AC,OWNER!AC,GROUP!AC,WORLD!AC');
   958
                                                CTRSTR DESCR [DSC$A POINTER] =

UPLIT BYTE ('SYSTEM!AC, OWNER!AC, GROUP!AC, WORLD!AC');

$FAOL (CTRSTR = CTRSTR DESCR [0,0,0,0],
   959
                     1018
                     1019
   960
   961
                  P 1020
                  P 1021
P 1022
1023
1024
1025
                                                          OUTLEN = RET_LENGTH [0],
OUTBUF = OUTSTR_DESCR [0,0,0,0],
   962
   963
   964
                                                          PRMLST = PRMLST [0]);
   965
                                                END:
   966
                     1026
   967
                     1027
   968
                                           [LIB$K_FMT_ACP]:
                     1028
1029
                                                BEGIN
   969
   970
                                                LOCAL
   971
                     1030
                                                      ACPTYP PTR: REF VECTOR [, BYTE]:
   972
                     1031
                                                IF .RET_NUMBER [0,0,32,0] GTRU DVI$C_ACP_JNL
```

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```
LIB$$LEXICAL
                    Internal routines for lexical functions
                                                                                 16-Sep-1984 01:04:32
                                                                                                                VAX-11 Bliss-32 V4.0-742
1-009
                    LIB$$FORMAT_RESULT - Format the result
                                                                                 14-Sep-1984 12:39:06
                                                                                                                [LIBRTL.SRC]LIBLEXICA.B32:1
                    1032
1033
1034
1035
1036
1037
1038
                                             THEN
   974
975
                                                  ACPTYP_PTR = ACP_TYPES [0]
                                                                                           ! Illegal
                                             ELSE
   976
977
                                             ACPTYP_PTR = ACP_TYPES [2*.RET_NUMBER [0,0,32,0]];
RET_LENGTH [0] = .ACPTYP_PTR [0];
CH$MOVE (.RET_LENGTH [0], ACPTYP_PTR [1], RET_STRING [0]);
   978
979
   980
                    1039
   981
982
983
984
985
                    1040
                                        [LIB$K_FMT_STATE]:
BEGIN
                    1041
                    1042
                                             LOCAL
                                                 STATE PTR: REF VECTOR [, BYTE];
.RET_NUMBER [0,0,32,0] GTRU SCH$C_CUR
                    1044
   986
987
                                             THEN
                    1046
                                                  STATE_PTR = STATES [0] ! Illegal
   988
                                             STATE PTR = STATES [2*.RET_NUMBER [0,0,32,0]];
RET_LENGTH [0] = .STATE PTR [0];
CH$MOVE (.RET_LENGTH [0], STATE_PTR [1], RET_STRING [0]);
   989
                    1048
                    1049
   990
   991
                    1051
1052
1053
1054
1055
1056
   992
993
   994
                                        [LIB$K_FMT_MODE]:
BEGIN
   995
   996
997
                                             LOCAL
                                                  MODE_PTR: REF VECTOR [, BYTE];
                    1057
1058
   998
                                             MODE_PTR = MODES [0]
   999
                                             INCRU I FROM 1 TO .RET_NUMBER [0,0,32,0] DO
                    1059
 1000
                                                  BEGIN
 1001
                    1060
                                                   IF .MODE_PTR [0] EQLU 0
 1002
                    1061
                                                  THEN
 1003
                    1062
                                                       BEGIN
                                                       MODE PTR = MODES [0];
EXITEOOP;
 1004
                                                                                           ! Invalid, use OTHER
 1005
                    1064
 1006
                    1065
                                                       END:
 1007
                    1066
                                                  MODE_PTR = .MODE_PTR + .MODE_PTR [0] + 1; ! Skip this string
 1008
                    1067
                                                  END:
 1009
                    1068
                                             RET_LENGTH [0] = .MODE_PTR [0];
 1010
                    1069
                                             CHSMOVE (.RET_LENGTH [0], MODE_PTR [1], RET_STRING [0]);
                    1070
 1011
                                             END:
                    1071
1072
1073
1074
1075
1076
 1012
 1013
                                        [LIB$K_FMT_PSTRING,LIB$K_FMT_ASCIC]:
                                                                                           ! Strip trailing blanks
 1014
                                             BEGIN
 1015
                                             DECRU I FROM .RET_LENGTH [0] TO 1 DO
                                                   IF .RET_STRING [.1] EQL XC'
 1016
 1017
                                                   THEN
 1018
                                                       RET_LENGTH [O] = .RET_LENGTH [O] - 1;
                    1078
 1019
                                             END:
 1020
                    1080
 1021
                                Note: $GETJPI does not return counted strings. It returns
 1022
                    1081
                                        these strings as zero-padded strings.
                    1082
 1024
                                        [LIB$K_FMT_ASCIC]:
 1025
                    1084
                                             BEGIN
 1026
1027
1028
                    1085
                                             RET_LENGTH [0] = .RET STRING [0]:
                    1086
                                             CH$MOVE (.RET_LENGTH [O], RET_STRING [1], RET_STRING [O]);
                                             END:
 1029
                    1088
```

L! \$1

P:

Pr Ir

CC Pa S) Pa S) Ps Cr As

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Tr

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Ma _1 1 °

TI M/

```
LIB$$LEXICAL
                                                                                       16-Sep-1984 01:04:32
14-Sep-1984 12:39:06
                                                                                                                        VAX-11 Bliss-32 V4.0-742 [LIBRTL.SRC]LIBLEXICA.B32;1
                      Internal routines for lexical functions
                      LIBSSFORMAT_RESULT - format the result
                      1089
1090
                                            [INRANGE, OUTRANGE]:
: 1031
                      1091
1092
1093
1032
                                            TES:
: 1034
: 1035
                      1094
                                      RETURN:
1036
                      1095
                      1096
                                      END:
                                                                                                ! End of routine LIB$$FORMAT_RESULT;
                                                      4E
56
                                                                 4E
31
                                                                       55
46
                                      4E 57
                                                                                  001B0 P.AAA:
                                                                                                                <7>\UNKNOWN\
                                                                                                     .ASCII
                                                                            ŎŚ.
                                                                                  001B8
                                                                                                     .ASCII
                                                                                                                <5>\F11V1\
                                                                                                     BYTE
ASCII
BYTE
ASCII
                                                                            ŎŎ
                                                                                                               0, 0
<5>\F11V2\
                                                                       00
                                                                                  001BE
                                                                            ŎŠ
                                                      56
                                                            31
                                                                 31
                                                                       46
                                                                                  00100
                                                                       ÓŎ
                                                                            ÕÕ
                                                                                  00116
                                                                                                               0, 0
<3>\MTA\
                                                                 54
00
45
                                                                            ŎŠ
                                                                                  00168
                                                                       4D
                                                                            00
                                                                                                     .BYTE
                                                                       00
                                                                                  00100
                                                                                                               0, 0, 0, 0
<3>\NET\
                                                                       402
050
                                                            54
00
                                                                                  C0100
                                                                 00
45
                                                                            00
                                                                                                                0, 0, 0, 0
<3>\REM\
                                                                                  00104
                                                                                                     .BYTE
                                                            4D
                                                                                  00108
                                                                                                     .ASCII
                                                                 00
4E
00
                                                            00
                                                                            00
                                                                                                               0, 0, 0, 0
<3>\JNL\
                                                                                  001DC
                                                                                                     .BYTE
                                                                                  001E0
                                                                                                     .ASCII
                                                                       00
55
43
                                                                                                               0, 0, 0, 0
<7>\UNKNOWN\
                                                            00
                                                                            ÕŌ
                                                                                  001E4
                                                                                                     .BYTE
                                                                 4E
4F
                                      4E 57
                                                            48
                                                                            ŎŽ
                                                                                  001E8 P.AAB:
                                                                                                     .ASCII
                                                       50
                                                            4 C
                                                                            05
                                                                                  001F0
                                                                                                     .ASCII
                                                                                                               <5>\COLPG\
                                                                       00
                                                                            00
                                                                                                               0, 0
<5>\MWAIT\
                                                                                  001F6
                                                                                                     .BYTE
                                                                            05
                                                 54
                                                      49
                                                            41
                                                                 57
                                                                       4D
                                                                                  001F8
                                                                                                     .ASCII
                                                                            00
03
                                                                                                               0, 0
<3>\CEF\
                                                                       00
                                                                                  001FE
                                                                                                     .BYTE
                                                                       43
                                                                 45
                                                                                  00200
                                                                                                     .ASCII
                                                            46
                                                                       00
50
00
40
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                                                                                                               0, 0, 0, 0
<3>\PFW\
                                                            00
57
00
46
00
                                                                 00204
                                                                                                     .ByTE
                                                                                  00208
                                                                                                     .ASCII
                                                                            00
03
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<3>\LEF\
                                                                                  00200
                                                                                                     .BYTE
                                                                                  00210
                                                                                                     .ASCII
                                                                       00
40
                                                                                                               0, 0, 0, (
<4>\LEFO\
                                                                            ŎŎ
                                                                                  00214
                                                                                                     .BYTE
                                                            46
                                                      4F
                                                                            04
                                                                                  00218
                                                                                                     .ASCII
                                                                 00
                                                                       00
48
                                                                                                               0, 0, 0
<3>\HIB\
                                                                            00
                                                                                  0021D
                                                                                                     .BYTE
                                                                            Ŏ3
                                                            42
                                                                                  00220
                                                                                                     .ASCII
                                                            00
                                                                 00
                                                                       00
48
                                                                                                               0, 0, 0, 0
<4>\HIBO\
                                                                            ŎŌ
                                                                                  00224
                                                                                                     .BYTE
                                                       4F
                                                                            04
                                                                                  00228
                                                                                                     .ASCII
                                                                       0505050
                                                                 00
55
00
55
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                                                                                                               0, 0, 0
<4>\SUSP\
                                                                                  00220
                                                                                                     .BYTE
                                                                                 00230
00235
00238
0023E
                                                       50
                                                            53
                                                                            04
                                                                                                     .ASCII
                                                                            ŎŎ
                                                                                                               0, 0, 0
<5>\SUSPO\
                                                                                                     .BYTE
                                                      50
                                                            53
                                                                            ÕŠ
                                                                                                     .ASCII
                                                                            00
03
                                                                                                               0, 0
<3>\FPG\
                                                                                                     .BYTE
                                                                 50
00
4F
                                                            47
                                                                       46
                                                                                  00240
                                                                                                     .ASCII
                                                                            00
                                                                       00
                                                                                                               0, 0, 0, 0
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                                                            00
                                                                                  00244
                                                                                                     .BYTE
                                                            4D
                                                                                  00248
                                                                                                     .ASCII
                                                            00
4D
                                                                       00
                                                                            00
                                                                 00
4F
                                                                                                               0, 0, 0, (
<4>\como\
                                                                                  00240
                                                                                                     .BYTE
                                                       4F
                                                                                  00250
                                                                                                     .ASCII
                                                                       00
                                                                            00
                                                                                                               0, 0, 0
<3>\CUR\
                                                                 05
05
05
05
45
41
                                                                                  00255
                                                                                                     .BYTE
                                                            50084544
5555
                                                                                  00258
                                                                                                     .ASCII
                                                                       00 F E 29
                                                                            00
05
07
05
                                                                                                               0, 0, 0, 0
<5>\OTHER\
                                                                                  0025C
                                                                                                     .BY1E
                                                      45
57
43
45
                                                                                  00260 P.AAC:
                                                 52
4F
48
52
                                                                                                     .ASCII
                                            52
                                                                                  00266
                                                                                                     .ASCII
                                                                                                               <7>\NETWORK\
                                                                                  9926E
                                                                                                     .ASCII
                                                                                                               <5>\BATCH\
                      56 49 54
                                      43
                                           41
                                                                                  00274
                                                                                                     .ASCII
                                                                                                              <11>\INTERACTIVE\
```

L 11	B \$\$ LE	XICA	ıL	Int LIE	terna B\$\$f(ol ro DRMA1	outii T_RE:	nes SULT	for l	exic ormat	al 1	unct res	ions iult	.	K 5 16-Sep-1984 01:04:32 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:39:06 [LIBRTL.SRC]LIBLEXICA.B32;1	Page 30 (12)
						4C 45		C3DDF8FF 428D968	4444544454445554445	28EE317F533D100DCE	8530C417F1DD744025514C97D3ED	0092C59F2F223550FF	33371444C7E00033347D	066668686566666655	00281 P.AAD: .ASCII <6>\CMKRNL\ 00288 .ASCII <6>\CMEXEC\ 0028F .ASCII <6>\SYSNAM\ 00296 .ASCII <6>\GRPNAM\ 0029D .ASCII <8>\ALLSPOOL\ 002A6 .ASCII <6>\DETACH\ 002AD .ASCII <8>\DIAGNOSE\ 002B6 .ASCII <6>\LOG IO\ 002BD .ASCII <5>\GROUP\ 002C3 .ASCII <6>\NOACNT\ 002CA .ASCII <6>\PRMCEB\ 002D1 .ASCII <6>\PRMCEB\ 002D1 .ASCII <6>\SPWAPM\ 002D8 .ASCII <6>\SETPRI\ 002D8 .ASCII <6>\SETPRI\ 002D8 .ASCII <6>\SETPRI\ 002D8 .ASCII <6>\SETPRI\ 002D6 .ASCII <6>\SETPRI\ 002F4 .ASCII <6>\SETPRV\ 002F4 .ASCII <5>\WORLD\ 002FA .ASCII <5>\MOUNT\ 00300 .ASCII <5>\MOUNT\ 00300 .ASCII <5>\MOUNT\	
					45	44	45 41 40 54	5844BCCO 63B 426CCC9	F2298521D23351721EE2	55445445533D100DCE25D0F377D501C22E04AA55445445544445544445544455444455454544455454	4514C97D3ED303177010D3	5544455296899980F25D25	444554555555555472403	076666666566657967668	0030D	
52 4f	45 57	4E 20	57 43	4f 41	2C 21	43 50	41 55	21 4F	4D 52 43	45 45 47 41	45 53 44 50 54 20 21	455 4445 455 445 445 445 445 445 445 44	552 552 552 552 557 557 559 41 40	01 25 42 21 25 55 25 25 25 25 25 25 25 25 25 25 25	00371	!AC\
															ACP_TYPES= P.AAA STATES= P.AAB MODES= P.AAC LIB\$\$AT_PRV_NAMES== P.AAD	

EY	TRN	j C	VC		AO.	ı
ГΑ	1 7 7			. .	AU	Ł

						.EXTRN	SYS\$FAOL	
01A9 01BC 0085 00D9	12 005D 01BC 0033 00D9 0179	01 00 00	5A FDD1 5E FDE0 010E AD 010E0200 56 04 AD 10 1A9 1BC 04C 0158	07FC CF 9E CE 9E 8F B0 8F D0 AC D0 56 D0 18C 018C 0027 0097 0142	00007 0000C 00012 0001A 0001E	.ENTRY MOVAB MOVAB MOVU MOVL MOVL CASEL .WORD	LIB\$\$FORMAT_RESULT, Save R2,R3,R4,R5,R6,R7,- R8,R9,R10 ACP_1YPES, R10 -544(SP), SP W270, CTRSTR_DESCR+2 W17695232, OUTSTR_DESCR RET_STRING, R6 R6, OUTSTR_DESCR+4 ARET_TYPE, W0, W18 38\$-T\$,- 34\$-1\$,- 34\$-1\$,- 38\$-1\$,- 38\$-1\$,- 38\$-1\$,- 15\$-1\$,- 10\$-1\$,- 10\$-1\$,- 10\$-1\$,- 16\$-1\$,- 24\$-1\$,-	0855 0859 0860 0866
		F 8 F C O C	AD 01E8 0A 08 BC 66 01EB	23 11 BC E9 04 B0 CA D0 04 05 B0	0004E 2\$: 00052 00058 0005A 3\$: 0005E 00062 00067 00068 4\$:	RET MOVW MOVAB BRB BLBC MOVW MOVL RET MOVW	265-15,- 295-15 #3, CTRSTR_DESCR P.AAE, CTRSTR_DESCR+4 6\$ @RET_NUMBER, 4\$ #4, @RET_LENGTH P.AAF, (R6) #5, @RET_LENGTH	0871 0872 0873 0882 0885 0887 0882
	66 F8 AD	01EF F8 FC E0	AD 01F4 AD 08	ra oc	00072 00073 5\$:	MOVC3 RET MOVW MOVAB MOVL BRB	#5, P.AAG, (R6) #3, CTRSTR_DESCR P.AAH, CTRSTR_DESCR+4 aret_number, Prmlst 9\$	0893 0866 0899 0900 0901
		0C F C 0000000G	BC AD 7E OC 7E F8 F8	02 A5 6E 9E BC 3C AD 3C AD 9F 56 DD 04 FB	00077 0007D 6\$: 00082 00084 7\$: 0008A 0008E 00092 00096 00099 00098	MULW3 MOVAB MOVZWL MOVZWL PUSHAB PUSHL CALLS	#2, aret_length, ctrstr_descr TEMP_STRING, ctrstr_descr+4 aret_length, -(sp) ctrstr_descr, -(sp) ctrstr_descr r6 #4, ots\$cvt_l_tz	0913 0914 0916 0915
	66	0C F8 FC	BC 6E F8 AD 01F7	02 A4 AD 28 04 03 B0	000A2 000A6	MULW2 MOVC3 RET MOVW MOVAB	#2, aret_length CTRSTR_DESCR, TEMP_STRING, (R6) #3, CTRSTR_DESCR P.AAI, CTRSTR_DESCR+4	0917 0919 0866 0924 0925

LIBSSLEXICAL 1-009	Internal	. rou1	tines for lexi RESULT - Forma	cal functions t the result	M 5 16-Sep-1984 01:04:32 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:39:06 [LIBRTL.SRC]LIBLEXICA.B32;1	Page 32 (12)
			EO AD	08 AC 0097 56	DO 000B6 MOVL RET_NUMBER, PRMLST 31 000BB 9\$: BRW 23\$ DO 000BE 10\$: MOVL R6, STRING_PTR	; 0926 ; 0930
			53 57	00D1 ÇA	9E 000Cl MOVAB LIB\$\$AT_PRV_NAMES, PRV_NAME	; 0940 ; 0941 ; 0947
			58	67 19	9A 000C8 115: MOVZBL (PRV_NAME), R8 13 000CB BEQL 13\$	0944
1		0 <u>8</u> 63	08 BC 01 A7	59 58 20	E1 000CD BBC PRV, @RET_NUMBER, 12\$ 28 000D2 MOVC3 R8, 1(PRV NAME), (STRING PTR)	: 0947 : 0951
			01 A7 83 57	2C 01 A847	YE UUUDA 12%: MOVAB T(R8)[PRV_NAME], PRV_NAME	: 0952 : 0954
			3 F	01 A847 59 59	D6 000DF INCL PRV D1 000E1 CMPL PRV, #63	: 0942
			56	53 02	1B 000E4 BLEQU 11\$° D1 000E6 13\$: CMPL STRING_PTR, R6 13 000E9 BEQL 14\$	0956
	0c	ВС	53	E2 53 02 53 56	DZ 000EB DECL STRING_PTR A3 000ED 14\$: SUBW3 R6, STRING_PTR, @RET_LENGTH	. 0958 : 0959
			F8 AD	03	04 000F2 RET B0 000F3 15\$: MOVW #3, CTRSTR_DESCR	: 0866 : 0964
				O1FA CA FF7D	9E 000F7	: 0965 : 0966
			0E	10 AC 07	D1 00100 16\$: CMPL RET_TYPE, #14 12 00104 BNEQ 17\$: 0985
			55 55	01FD CA 05 0201 CA	12 00104 BNEQ 17\$ 9E 00106 MOVAB P.AAK, PROT_CHARS 11 0010B BRB 18\$ 9E 0010D 17\$: MOVAB P.AAL, PROT_CHARS	. 0987 . 0989
			55 54	0201 ČÅ C8 AD 50 54	9E 0010D 17\$: MOVAB P.AAL, PROT_CHARS 9E 00112 18\$: MOVAB PSTRING_PTR D4 00116 CLRL I	; 0991 ; 0999
			EO AD40 51	54 54	DO 00118 19\$: MOVL PSTRING_PTR, PRMLST[1] DO 0011D MOVL PSTRING_PTR, THIS_STRING 94 00120 CLRB (PSTRING_PTR)+	. 0996 . 0997
	•	53	50	54 84 02 53	94 00120 CLRB (PSTRING_PTR)+ 78 00122 ASHL #2, I, R3	. 0998 . 0999
52	80	BC 57	50 04 52	53 0F 15	78 00122 ASHL #2, I, R3 EF 00126 EXTZY R3, #4, @RET_NUMBER, R2 8D 0012C XORB3 #15, R2, PROT_FIELD 13 00130 BEQL 22\$:
			84	15 30	90 00132 MOVB #61, (PSTRING_PTR)+	: 1000 : 1003
		06	57	52 53	96 00135 INCB (THIS_STRING) D4 00137 CLRL J E1 00139 20\$: BBC J, PROT_FIELD, 21\$: 1004 : 1005 : 1007 : 1010
		00	57 84	30 61 52 52 6245 61 03	90 00130 MOVB (j)[PROT CHARS], (PSTRING_PTR)+ 96 00141 INCB (THIS_STRING)	1010
		F2 CD	52 50	03 03	F3 00143 21\$: AOBLEQ #3, J. 20\$ F3 00147 22\$: AOBLEQ #3, I, 19\$: 1005 : 0992
			52 50 F8 AD FC AD	0205 CA	E1 00139 20\$: BBC	: 1016 : 1019 : 1023
				0205 CA EO AD FO AD OC AC F8 AD	AL COLDO EDO: LODUMO LUNEDI	: 1023
		,	00000000 00	F8 AD	9F 00158 PUSHAB OUTSTR DESCR DD 0015B PUSHL RET LENGTH 9F 0015E PUSHAB CTRSTR DESCR	
		,	000000000 00 06		04 00100 KEI	0866 1031
			51	05 6 A	1B 0016D BLEQU 25\$ 9E 0016F MOVAB ACP TYPES, ACPTYP PTR	1033
		50	08 BC	21 01	11 00172 BRB 28\$ 78 00174 25\$: ASHL #1, @RET_NUMBER, RO	1035

LIB\$\$LEXICAL 1-009	Internal routing LIB\$\$FORMAT_RES	es for lexi ULT - Forma	cal functions t the result	16-Sep-1984 01 14-Sep-1984 12	:04:32	Page 33 (12)
		51 0E 51	6A40 16 08 BC 06 38 AA	DE 00179 MOVAI 11 0017D BRB D1 0017F 26\$: CMPL 1B 00183 BLEQU 9E 00185 MOVAE	28\$ @RET_NUMBER, #14 J 27\$ B STATES STATE PIR	1036 1044 1046
	50 66	08 BC 51 0C BC 01 A1	0A 01 38 AA40 61 0C BC	11 00189 78 0018B 27\$: ASHL DE 00190 MOVAL 9B 00195 28\$: MOVZE 28 00199 MOVC	BW (STATE_PTR), @RET_LENGTH	1048 1049 1050
		50 52	0080 CA 01 15 60	04 0019F RET 9E 001A0 29\$: MOVAE D0 001A5 MOVL 11 001A8 BRB 95 001AA 30\$: TSTB	_	: 0866 : 1057 : 1058 : 1060
		50 51 50	07 00B0 CA 10 60 01 A140	12 001AC BNEQ 9E 001AE MOVAE 11 001B3 BRB 9A 001B5 31\$: MOVAE 9E 001B8 MOVAE	31\$ B MODES, MODE_PTR 33\$ BL (MODE_PTR) R1	1063 1062 1066
	66	08 BC 0C BC 01 A0	52 52 E5 60 00 BC	D6 001BD INCL D1 001BF 32\$: CMPL 1B 001C3 BLEQU 9B 001C5 33\$: MOVZE 28 001C9 MOVC	I I, aret_number J 30\$ BW (Mode_ptr), aret_length	1058 1068 1069
	••	50	0C BC 0B 6046	04 001CF RET 3C 001D0 34\$: MOVZN 11 001D4 BRB 91 001D6 35\$: CMPB	JL @RET_LENGTH, I 37\$ (I)[R6], #32	. 0866 1074 . 1075
			00 BC 50 F3	12 001DA BNEQ B7 001DC DECW D7 001DF 36\$: DECL 12 001E1 37\$: BNEQ 04 001E3 38\$: RET	36\$ aret_length I 35\$	1077 1075 1096

; Routine Size: 484 bytes. Routing Base: _LIB\$CODE + 03D9

PSECT SUMMARY

Bytes Name Attributes

1469 NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(2) _LIB\$CODE

Library Statistics

Pages ----- Symbols -----Processing file Total Loaded Percent Mapped Time _\$255\$DUA28:[SYSLIB]LIB.L32;1 _\$255\$DUA28:[LIBRTL.OBJ]RTLLIB.L32;1 78 17 00:01.4 18619 1000 36

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OF, IMIZE)/NOTRACE/LIS=LIS\$:LIBLEXICA/OBJ=OBJ\$:LIBLEXICA MSRC\$:LIBLEXICA/UPDATE=(ENH\$:LIBLEXICA

916 code + 553 data bytes 00:20.2 01:30.6 Size:

Run Time: Elapsed Time:

; Lines/CPU Min: 3262 ; Lexemes/CPU-Min: 42347 ; Memory Used: 229 pages ; Compilation Complete

0208 AH-BT13A-SE

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